

SEQUENCE LISTING

<110> Schewe et al

<120> Monocotyledon plant cells and plants which synthesise modified starch

<130> 514413-3900

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<151> 2000-10-23

<150> DE 10064805.3

<151> 2000-12-22

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<170> PatentIn Ver. 2.1

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<213> Solanum tuberosum

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Glu Glu Ile Ala Arg Gly Ala Ser Ile Gln Asp Ile Arg Ala Arg Leu
260 265 270

Thr Lys Thr Asn Asp Lys Ser Gln Ser Lys Glu Glu Pro Leu His Val
275 280 285

Thr Lys Ser Glu Ile Pro Asp Asp Leu Ala Gln Ala Gln Ala Tyr Ile
290 295 300

Arg Trp Glu Lys Ala Gly Lys Pro Asn Tyr Pro Pro Glu Lys Gln Ile
305 310 315 320

Glu Glu Leu Glu Glu Ala Arg Arg Glu Leu Gln Leu Glu Leu Glu Lys
325 330 335

Gly Ile Thr Leu Asp Glu Leu Arg Lys Lys Ile Thr Lys Gly Glu Ile
340 345 350

Lys Thr Lys Ala Glu Lys His Val Lys Arg Ser Ser Phe Ala Val Glu
355 360 365

Arg Ile Gln Arg Lys Lys Arg Asp Phe Gly Gln Leu Ile Asn Lys Tyr
370 375 380

Pro Ser Ser Pro Ala Val Gln Val Gln Lys Val Leu Glu Glu Pro Pro
385 390 395 400

Ala Leu Ser Lys Ile Lys Leu Tyr Ala Lys Glu Lys Glu Glu Gln Ile

				405				410				415			
Asp	Asp	Pro	Ile	Leu	Asn	Lys	Lys	Ile	Phe	Lys	Val	Asp	Asp	Gly	Glu
			420				425			430					
Leu	Leu	Val	Leu	Val	Ala	Lys	Ser	Ser	Gly	Lys	Thr	Lys	Val	His	Ile
			435				440			445					
Ala	Thr	Asp	Leu	Asn	Gln	Pro	Ile	Thr	Leu	His	Trp	Ala	Leu	Ser	Lys
			450				455			460					
Ser	Arg	Gly	Glu	Trp	Met	Val	Pro	Pro	Ser	Ser	Ile	Leu	Pro	Pro	Gly
465				470			475						480		
Ser	Ile	Ile	Leu	Asp	Lys	Ala	Ala	Glu	Thr	Pro	Phe	Ser	Ala	Ser	Ser
			485				490			495					
Ser	Asp	Gly	Leu	Thr	Ser	Lys	Val	Gln	Ser	Leu	Asp	Ile	Val	Ile	Glu
			500				505			510					
Asp	Gly	Asn	Phe	Val	Gly	Met	Pro	Phe	Val	Leu	Leu	Ser	Gly	Glu	Lys
			515				520			525					
Trp	Ile	Lys	Asn	Gln	Gly	Ser	Asp	Phe	Tyr	Val	Asp	Phe	Ser	Ala	Ala
530				535			540								
Ser	Lys	Leu	Ala	Leu	Lys	Ala	Ala	Gly	Asp	Gly	Ser	Gly	Thr	Ala	Lys
545				550			555						560		
Ser	Leu	Leu	Asp	Lys	Ile	Ala	Asp	Met	Glu	Ser	Glu	Ala	Gln	Lys	Ser
			565				570			575					
Phe	Met	His	Arg	Phe	Asn	Ile	Ala	Ala	Asp	Leu	Ile	Glu	Asp	Ala	Thr
			580				585			590					
Ser	Ala	Gly	Glu	Leu	Gly	Phe	Thr	Gly	Ile	Leu	Val	Trp	Met	Arg	Phe
			595				600			605					
Met	Ala	Thr	Arg	Gln	Leu	Ile	Trp	Asn	Lys	Asn	Tyr	Asn	Val	Lys	Pro
610				615			620								
Arg	Glu	Ile	Ser	Lys	Ala	Gln	Asp	Arg	Leu	Thr	Asp	Leu	Leu	Gln	Asn
625				630			635						640		
Ala	Phe	Thr	Ser	His	Pro	Gln	Tyr	Arg	Glu	Ile	Leu	Arg	Met	Ile	Met
			645				650			655					
Ser	Thr	Val	Gly	Arg	Gly	Gly	Glu	Gly	Asp	Val	Gly	Gln	Arg	Ile	Arg
			660				665			670					
Asp	Glu	Ile	Leu	Val	Ile	Gln	Arg	Lys	Asn	Asp	Cys	Lys	Gly	Gly	Met
			675				680			685					
Met	Glu	Glu	Trp	His	Gln	Lys	Leu	His	Asn	Asn	Thr	Ser	Pro	Asp	Asp
			690				695			700					

Val Val Ile Cys Gln Ala Leu Ile Asp Tyr Ile Lys Ser Asp Phe Asp
705 710 715 720

Leu Gly Val Tyr Trp Lys Thr Leu Asn Glu Asn Gly Ile Thr Lys Glu
725 730 735

Arg Leu Leu Ser Tyr Asp Arg Ala Ile His Ser Glu Pro Asn Phe Arg
740 745 750

Gly Asp Gln Lys Asn Gly Leu Leu Arg Asp Leu Gly His Tyr Met Arg
755 760 765

Thr Leu Lys Ala Val His Ser Gly Ala Asp Leu Glu Ser Ala Ile Ala
770 775 780

Asn Cys Met Gly Tyr Lys Thr Glu Gly Glu Gly Phe Met Val Gly Val
785 790 795 800

Gln Ile Asn Pro Val Ser Gly Leu Pro Ser Gly Phe Gln Gly Leu Leu
805 810 815

His Phe Val Leu Asp His Val Glu Asp Lys Asn Val Glu Thr Leu Leu
820 825 830

Glu Gly Leu Leu Glu Ala Arg Glu Glu Leu Arg Pro Leu Leu Leu Lys
835 840 845

Pro Asn Asn Arg Leu Lys Asp Leu Leu Phe Leu Asp Ile Ala Leu Asp
850 855 860

Ser Thr Val Arg Thr Ala Val Glu Arg Gly Tyr Glu Glu Leu Asn Asn
865 870 875 880

Ala Asn Pro Glu Lys Ile Met Tyr Phe Ile Ser Leu Val Leu Glu Asn
885 890 895

Leu Ala Leu Ser Val Asp Asp Asn Glu Asp Leu Val Tyr Cys Leu Lys
900 905 910

Gly Trp Asn Gln Ala Leu Ser Met Ser Asn Gly Gly Asp Asn His Trp
915 920 925

Ala Leu Phe Ala Lys Ala Val Leu Asp Arg Ile Arg Leu Ala Leu Ala
930 935 940

Ser Lys Ala Glu Trp Tyr His His Leu Leu Gln Pro Ser Ala Glu Tyr
945 950 955 960

Leu Gly Ser Ile Leu Gly Val Asp Gln Trp Ala Leu Asn Ile Phe Thr
965 970 975

Glu Glu Ile Ile Arg Ala Gly Ser Ala Ala Ser Leu Ser Ser Leu Leu
980 985 990

Asn Arg Leu Asp Pro Val Leu Arg Lys Thr Ala Asn Leu Gly Ser Trp
995 1000 1005

Gln Ile Ile Ser Pro Val Glu Ala Val Gly Tyr Val Val Val Val Asp
1010 1015 1020

Glu Leu Leu Ser Val Gln Asn Glu Ile Tyr Lys Lys Pro Thr Ile Leu
1025 1030 1035 1040

Val Ala Asn Ser Val Lys Gly Glu Glu Glu Ile Pro Asp Gly Ala Val
1045 1050 1055

Ala Leu Ile Thr Pro Asp Met Pro Asp Val Leu Ser His Val Ser Val
1060 1065 1070

Arg Ala Arg Asn Gly Lys Val Cys Phe Ala Thr Cys Phe Asp Pro Asn
1075 1080 1085

Ile Leu Ala Asp Leu Gln Ala Lys Glu Gly Arg Ile Leu Leu Leu Lys
1090 1095 1100

Pro Thr Pro Ser Asp Ile Ile Tyr Ser Glu Val Asn Glu Ile Glu Leu
1105 1110 1115 1120

Gln Ser Ser Ser Asn Leu Val Glu Ala Glu Thr Ser Ala Thr Leu Arg
1125 1130 1135

Leu Val Lys Lys Gln Phe Gly Gly Cys Tyr Ala Ile Ser Ala Asp Glu
1140 1145 1150

Phe Thr Ser Glu Met Val Gly Ala Lys Ser Arg Asn Ile Ala Tyr Leu
1155 1160 1165

Lys Gly Lys Val Pro Ser Ser Val Gly Ile Pro Thr Ser Val Ala Leu
1170 1175 1180

Pro Phe Gly Val Phe Glu Lys Val Leu Ser Asp Asp Ile Asn Gln Gly
1185 1190 1195 1200

Val Ala Lys Glu Leu Gln Ile Leu Thr Lys Lys Leu Ser Glu Gly Asp
1205 1210 1215

Phe Ser Ala Leu Gly Glu Ile Arg Thr Thr Ile Leu Asp Leu Ser Ala
1220 1225 1230

Pro Ala Gln Leu Val Lys Glu Leu Lys Glu Lys Met Gln Gly Ser Gly
1235 1240 1245

Met Pro Trp Pro Gly Asp Glu Gly Pro Lys Arg Trp Glu Gln Ala Trp
1250 1255 1260

Met Ala Ile Lys Lys Val Trp Ala Ser Lys Trp Asn Glu Arg Ala Tyr
1265 1270 1275 1280

Phe Ser Thr Arg Lys Val Lys Leu Asp His Asp Tyr Leu Cys Met Ala
1285 1290 1295

Val Leu Val Gln Glu Ile Ile Asn Ala Asp Tyr Ala Phe Val Ile His
1300 1305 1310

Thr Thr Asn Pro Ser Ser Gly Asp Asp Ser Glu Ile Tyr Ala Glu Val
1315 1320 1325

Val Arg Gly Leu Gly Glu Thr Leu Val Gly Ala Tyr Pro Gly Arg Ala
1330 1335 1340

Leu Ser Phe Ile Cys Lys Lys Lys Asp Leu Asn Ser Pro Gln Val Leu
1345 1350 1355 1360

Gly Tyr Pro Ser Lys Pro Ile Gly Leu Phe Ile Lys Arg Ser Ile Ile
1365 1370 1375

Phe Arg Ser Asp Ser Asn Gly Glu Asp Leu Glu Gly Tyr Ala Gly Ala
1380 1385 1390

Gly Leu Tyr Asp Ser Val Pro Met Asp Glu Glu Glu Lys Val Val Ile
1395 1400 1405

Asp Tyr Ser Ser Asp Pro Leu Ile Thr Asp Gly Asn Phe Arg Gln Thr
1410 1415 1420

Ile Leu Ser Asn Ile Ala Arg Ala Gly His Ala Ile Glu Glu Leu Tyr
1425 1430 1435 1440

Gly Ser Pro Gln Asp Ile Glu Gly Val Val Arg Asp Gly Lys Ile Tyr
1445 1450 1455

Val Val Gln Thr Arg Pro Gln Met
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Asp Lys Ala Ala Glu Thr
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<211> 5

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Ile Ala Asp Met Glu

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5

<210> 8

<211> 6

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1 5

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Lys Val Cys Phe Ala Thr
1 5

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